

Figure 1 Front-end signal processing chain for m^{th} antenna chain CDMA applications

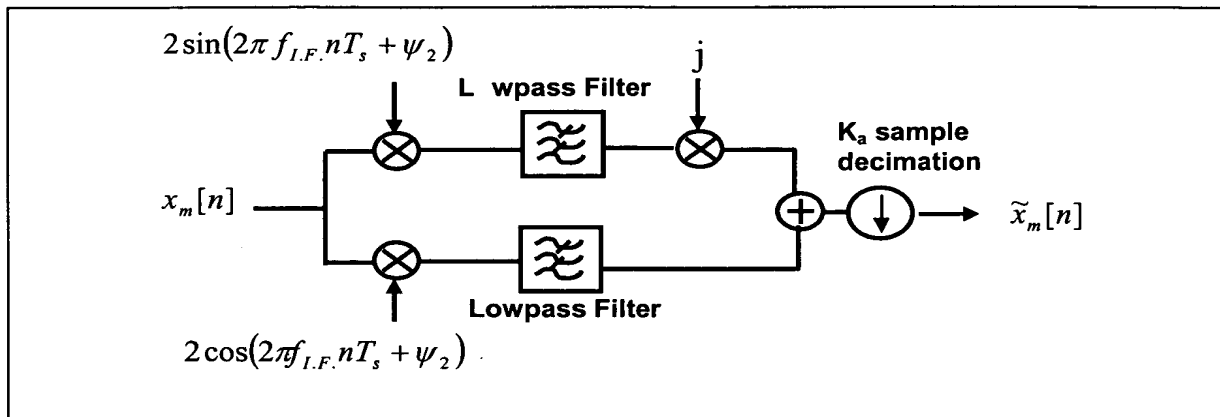


Figure 2 Complex Envelope OOK Demodulation

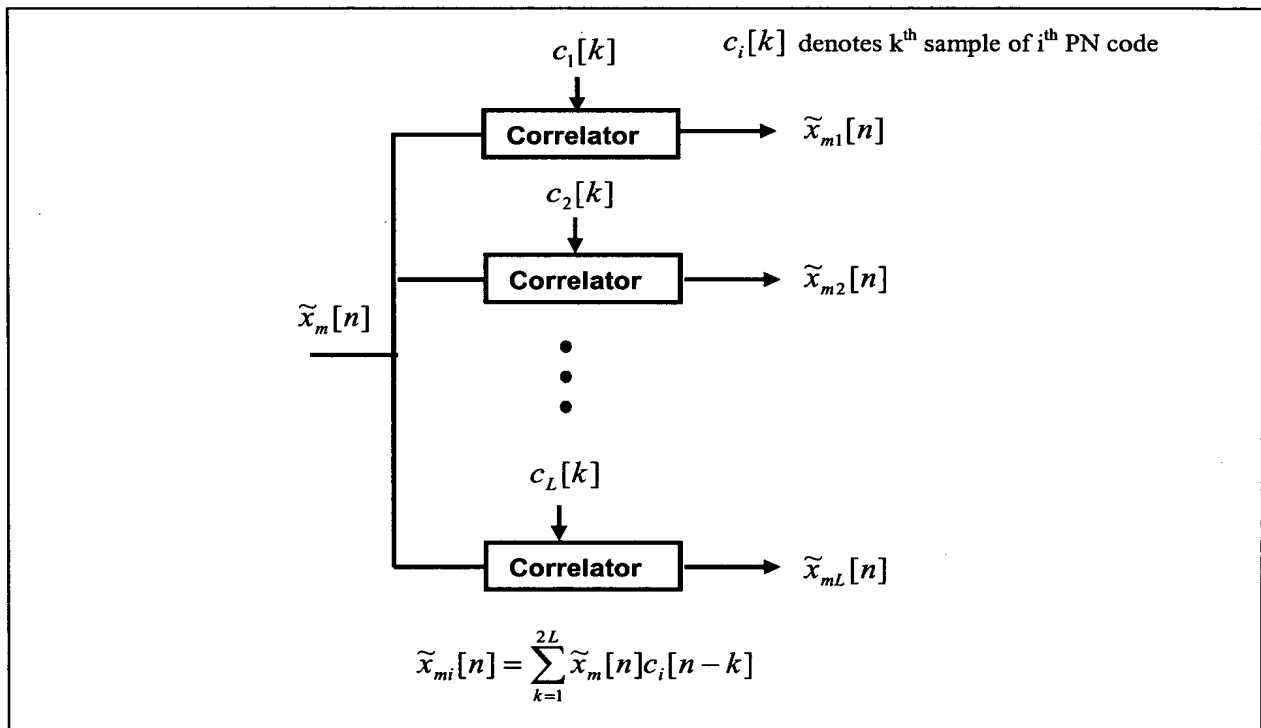


Figure 3 Correlator Operation

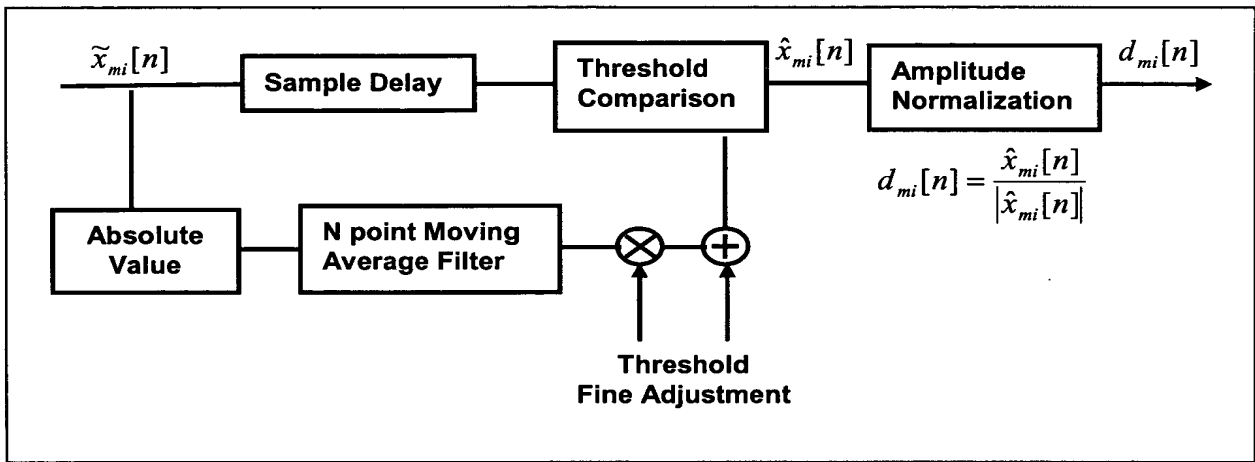


Figure 4

Threshold Generation and Normalization – i^{th} code channel

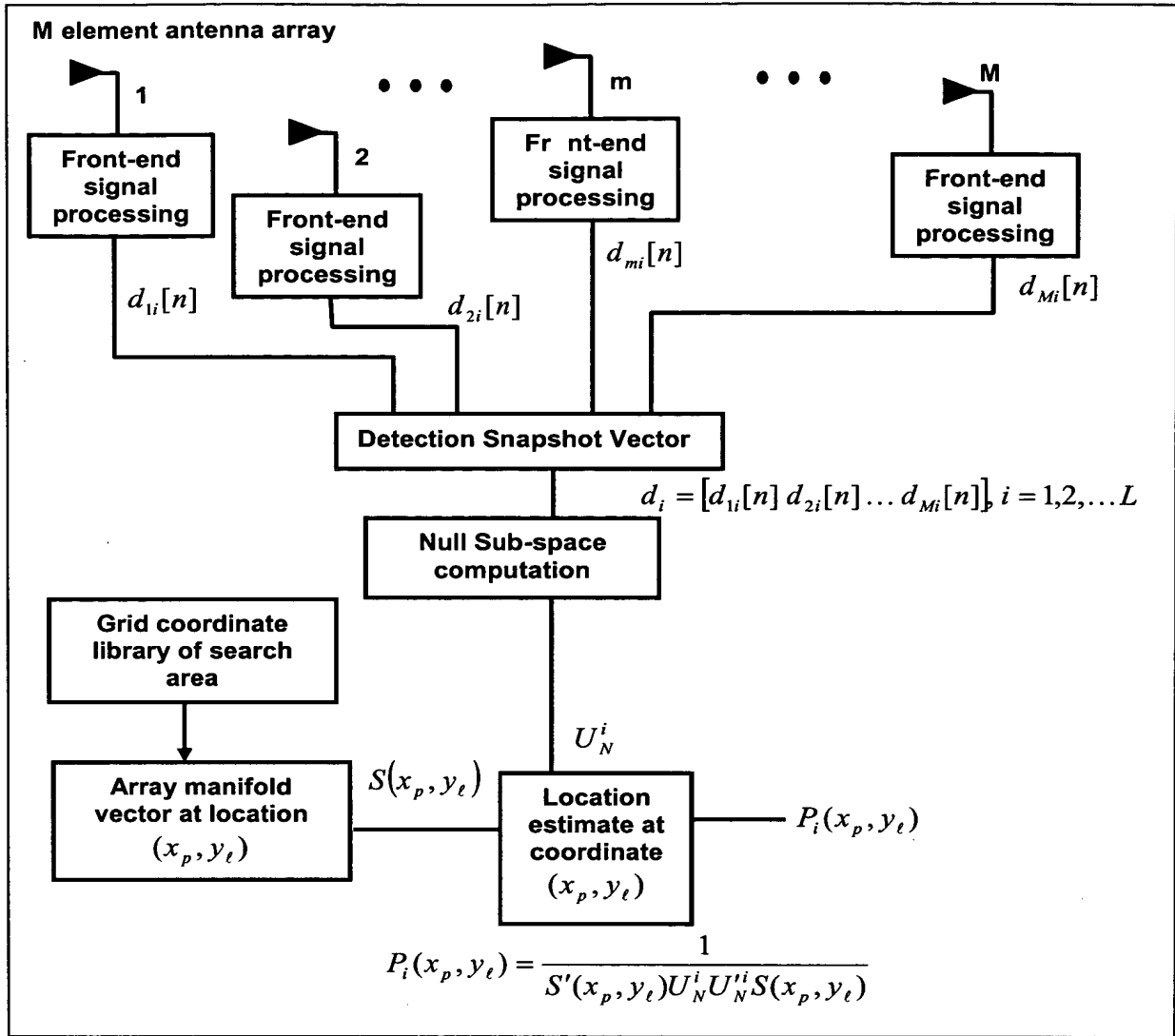


Figure 5 **Radio Transmitter Location Estimation - Orthogonal Sub-space Projection**
(processing for the i^{th} PN Code)

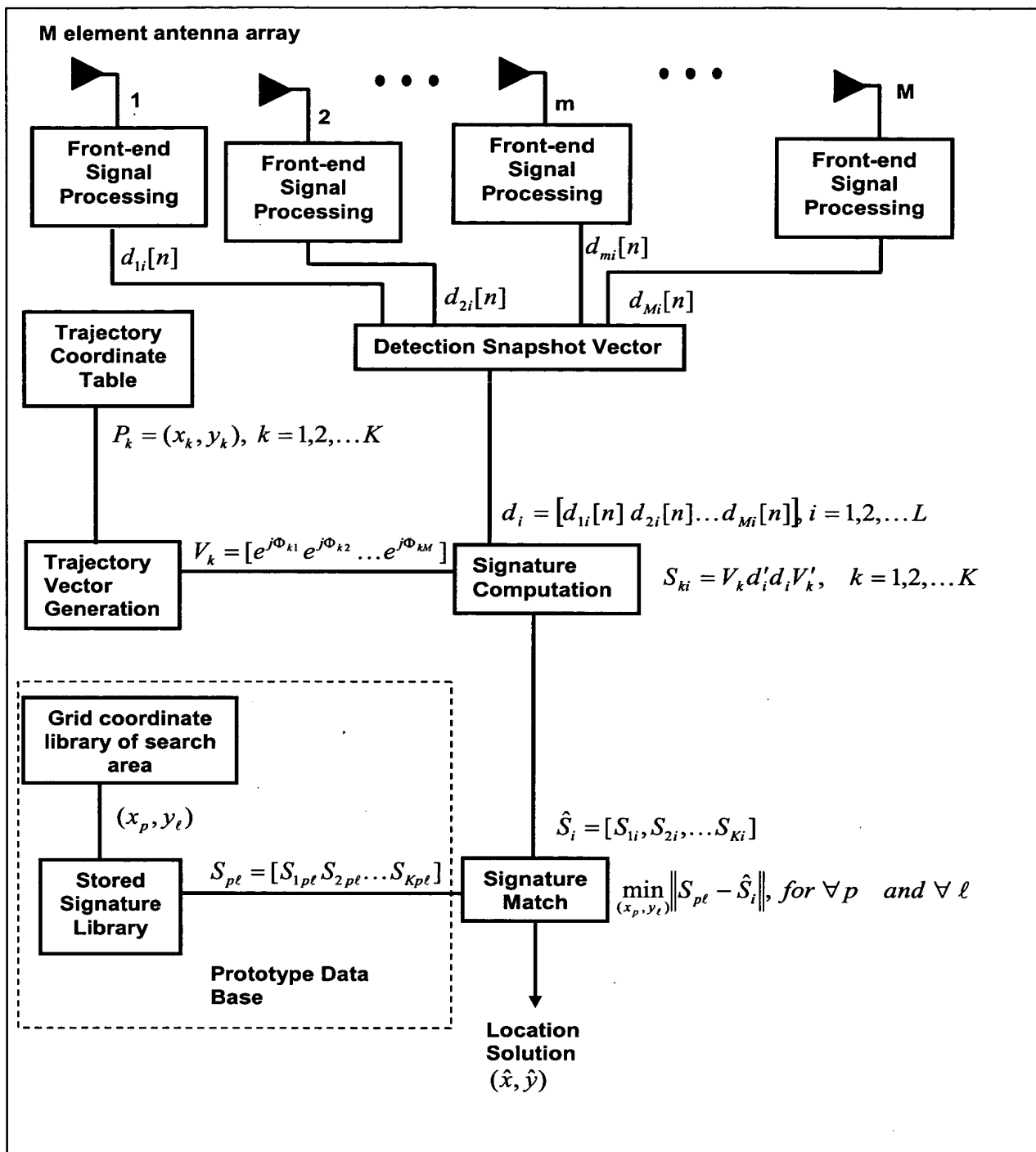


Figure 6 Radio Transmitter Location Estimation – Trajectory Signature Method
(processing for the i^{th} PN Code)

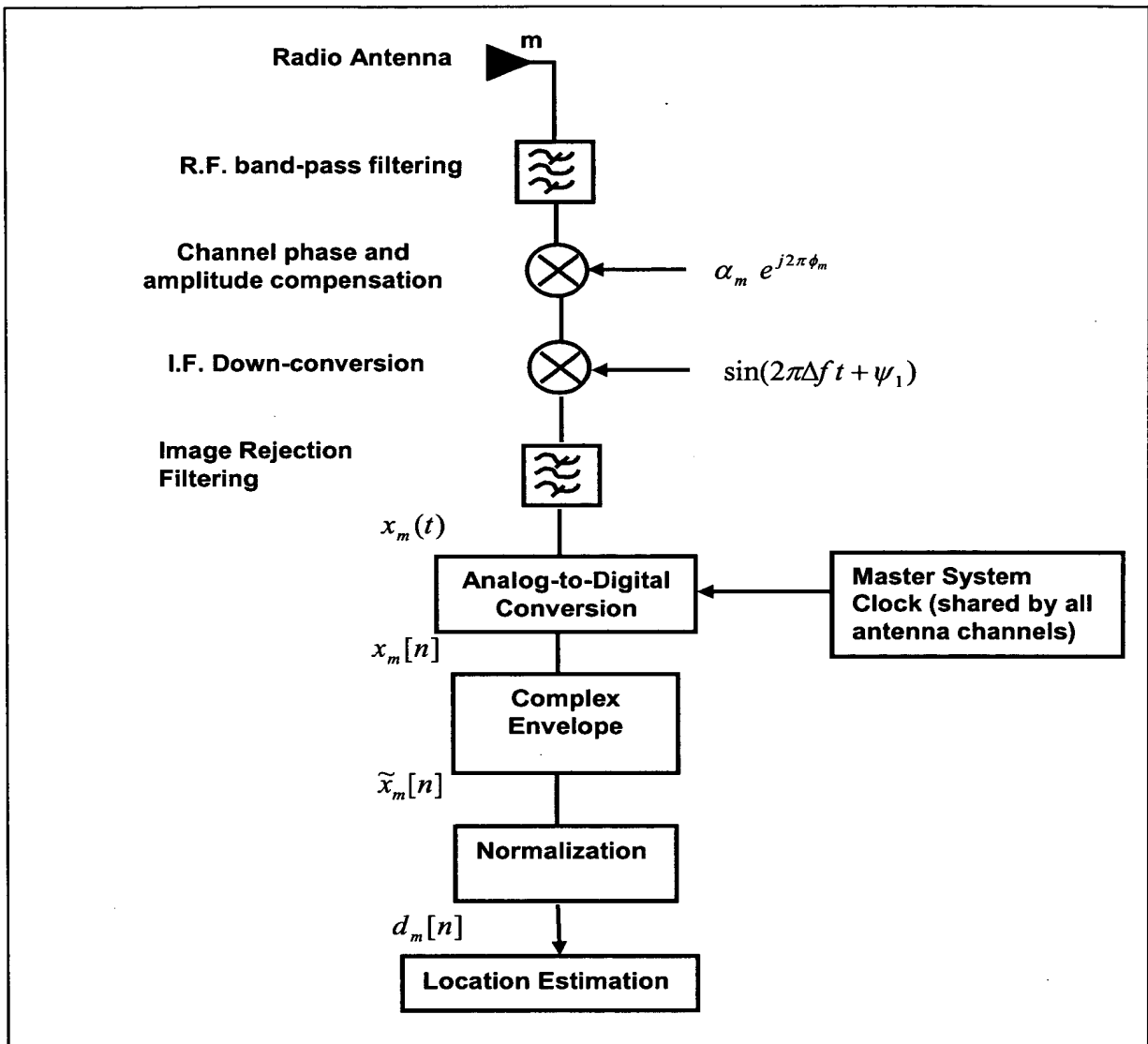


Figure 7 Front-end signal processing chain for m^{th} antenna chain Non-CDMA applications

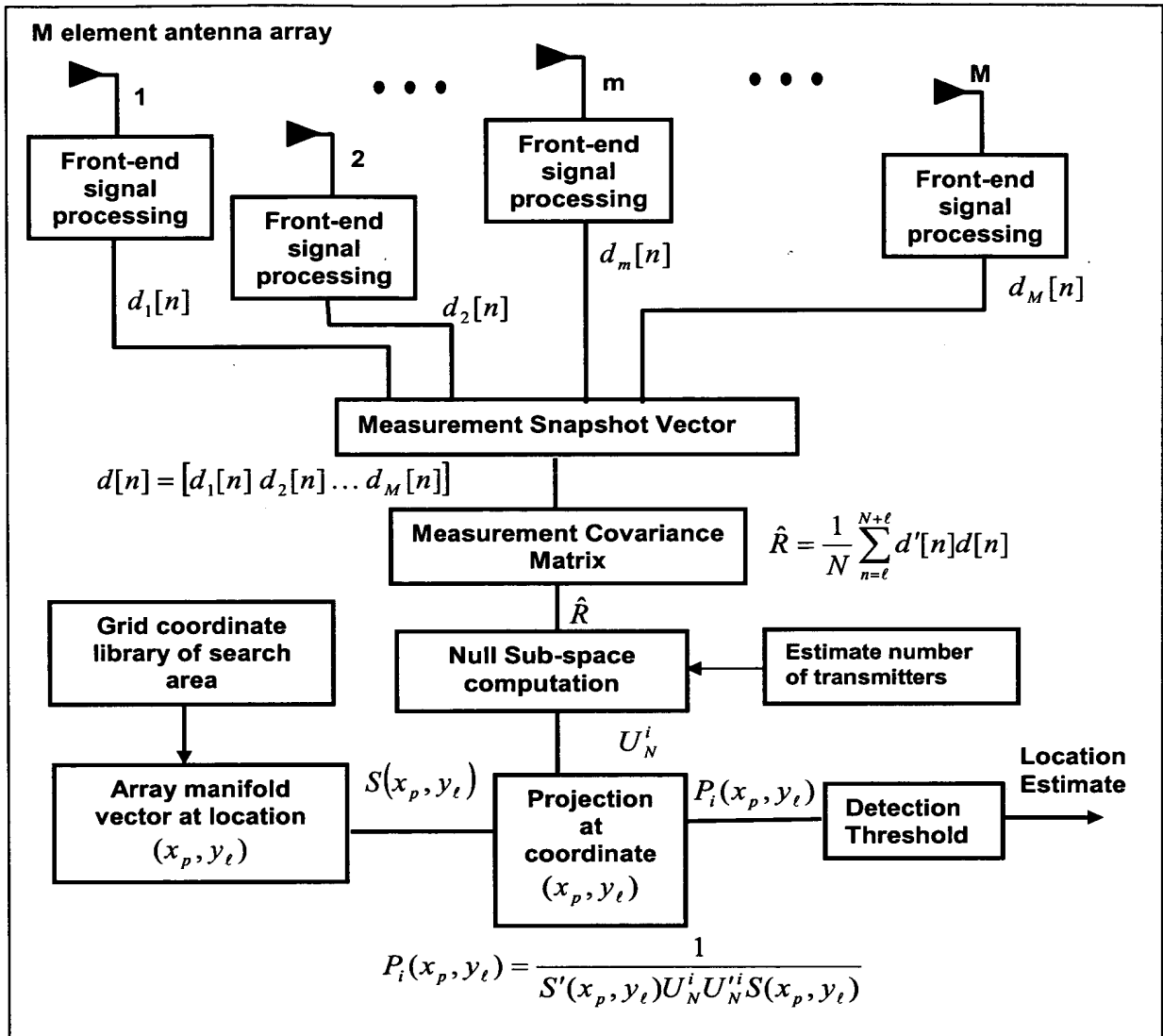


Figure 8 **Radio Transmitter Location Estimation - Orthogonal Sub-space Projection (Non-CDMA applications)**

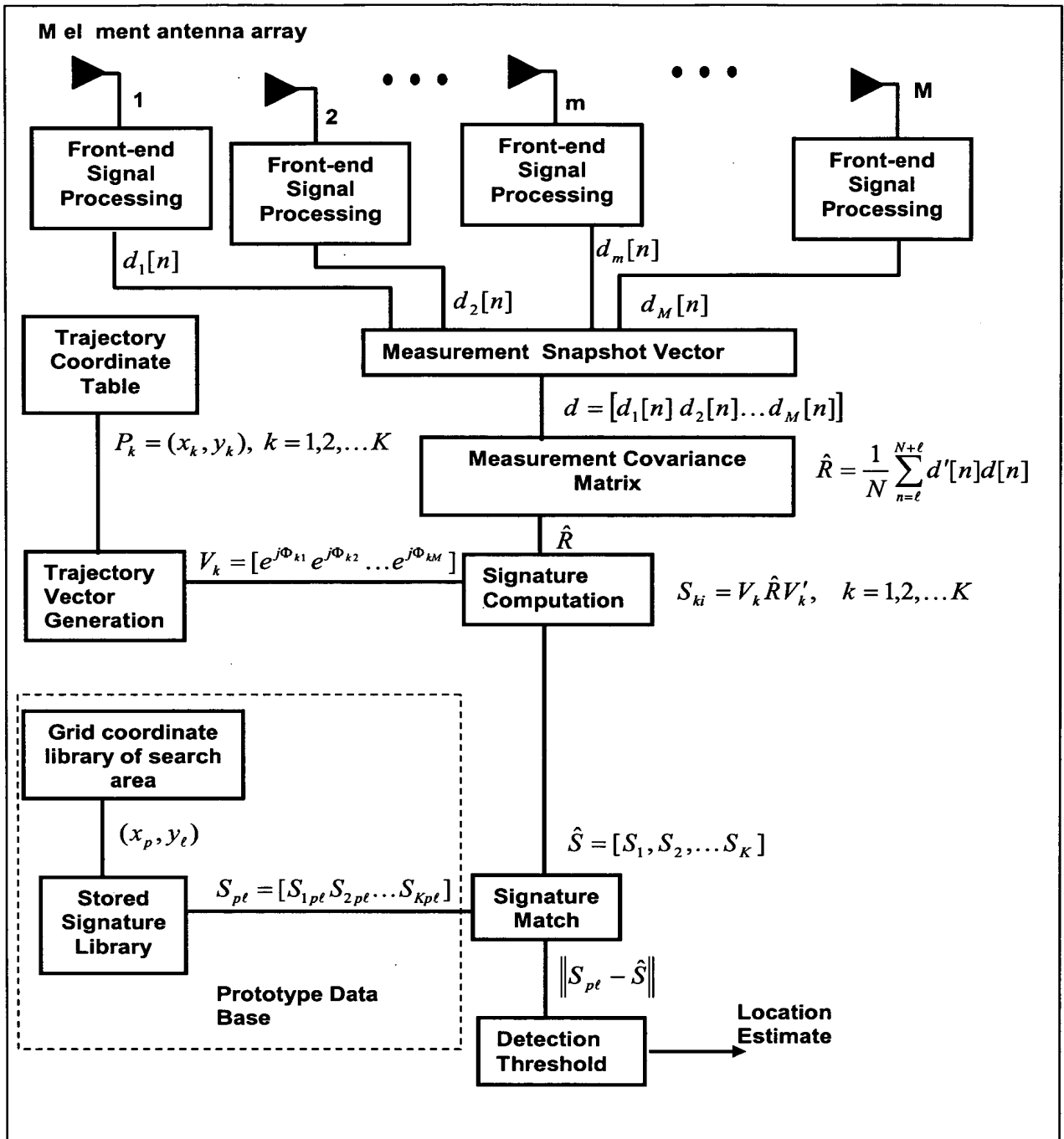


Figure 9 Radio Transmitter Location Estimation – Trajectory Signature Method (Non_CDMA processing)

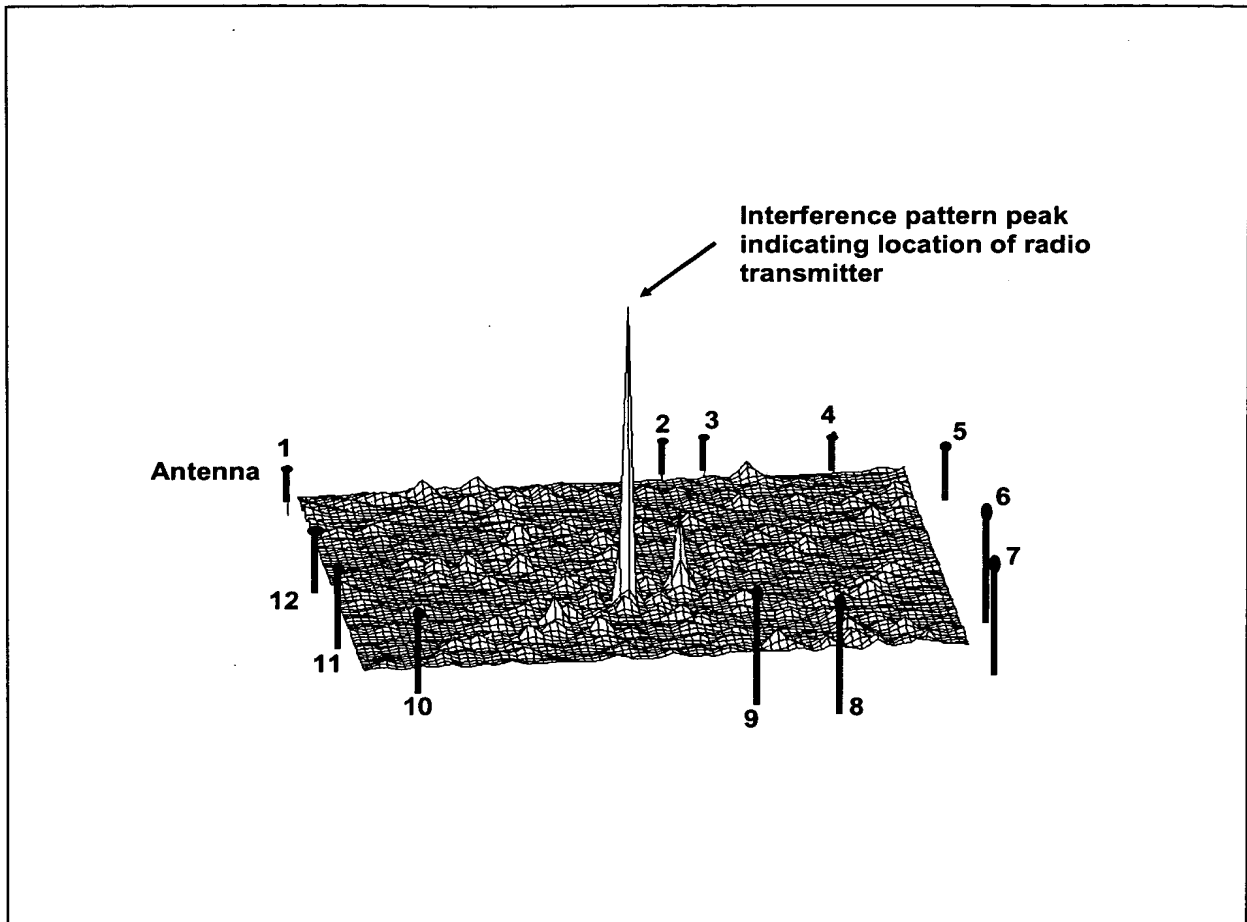


Figure 10 CDMA Interference pattern generated from a 12 element antenna array